

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003687

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B25J19/00, B25J19/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B25J19/00, B25J19/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 3-161295 A (Tokico Ltd.), 11 July, 1991 (11.07.91), Page 3, upper left column to page 4, upper right column; Fig. 3 (Family: none)	1, 2 3-6
Y	JP 3-92288 A (Hitachi, Ltd.), 17 April, 1991 (17.04.91), Page 3, upper left to upper right column; Figs. 1, 2 (Family: none)	3, 5, 6
Y	JP 8-126990 A (Yaskawa Electric Corp.), 21 May, 1996 (21.05.96), Par. Nos. [0004], [0007] to [0008]; Figs. 2, 3 (Family: none)	3, 4

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"&" document member of the same patent family

Date of the actual completion of the international search

14 July, 2004 (14.07.04)

Date of mailing of the international search report

03 August, 2004 (03.08.04)

Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 6-318108 A (Fanuc Ltd.), 15 November, 1994 (15.11.94), Full text; all drawings (Family: none)	1-6
A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 86635/1992 (Laid-open No. 50786/1994) (Meidensha Corp.), 12 July, 1994 (12.07.94), Full text; all drawings (Family: none)	1-6